



## THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY

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### **INFRASTRUCTURE COMMITTEE MEETING OF THE VILLAGE OF LIONS BAY HELD ON MONDAY, NOVEMBER 27, 2017 at 7:00 PM COUNCIL CHAMBERS, 400 CENTRE ROAD, LIONS BAY**

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#### **AGENDA**

- 1. Call to Order**
- 2. Appointment of Recorder**
- 3. Approval of the Agenda**
- 4. Public Questions & Comments**
- 5. Approval of Minutes**
  - A. Infrastructure Committee Meeting – October 23, 2017 (Page 3)
  - B. Action Items from the Minutes
- 6. Business Arising from the Minutes**
- 7. Unfinished Business**
  - A. Water Storage Facility Replacement
    - Status Update and Discussion – Nai
    - Option Items (watermain bridge, Bayview main, Mountain control valve)
  - B. Magnesia and Harvey Condition
    - Update – Nai
    - Consideration of using stored water to flush Magnesia infiltration gallery screen – Karl
  - C. UBC Water Hydrology Project Update
    - Update – Karl
  - D. Boydell Project
- 8. New Business**
  - A. Highway Tank Memorial Proposal
  - B. Kelvin Grove Beach Park Stairs
- 9. Public Questions & Comments**
- 10. Next Meeting – December 18, 2017**
- 11. Adjournment**

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LIONS BAY INFRASTRUCTURE COMMITTEE MEETING  
MONDAY 23 OCTOBER 2017 AT 7:00 PM  
COUNCIL CHAMBERS, 400 CENTER ROAD, LIONS BAY

MINUTES OF THE MEETING

In Attendance:

Fred Bain – Councilor and Committee Chair  
Naizam Jaffer – Public Works Manager  
Jim Mutrie – Resident  
Tony Greville – Resident  
Karl Buhr – Mayor  
Peter Dejong - CAO  
Brian Ulrich – Resident

Regrets:

Jim Hughes – Councilor

**1. Call to Order**

Meeting was called to order at 7:03 pm.

**2. Appointment of Recorder**

Regular recorder: Brian Ulrich

**3. Approval of the Agenda**

The Agenda was approved as is.

**4. Boydel Guests – Discussion with Randy and Norman**

Norman Keevil (President) and Randy De Luca of and Boydel Wastewater Technologies Inc. visited our wastewater treatment plant before the meeting and reviewed our process; RBC and clarifier. They will send us electronic copies of their documents and review of what their machine can do and how it would tie into our plant. After assessing our plant they indicated that it would be most effective to have their machine installed ahead of our plant (upstream). They expect that it can remove all TSS and at least 80% of BOD. This would reduce the load on our plant which is at about 90% of its design life today. They also indicated that if we install it, we should also install a Moving Bed Biological Reactor (MBBR).

From the discussion it became apparent that Boydel is more interested in installing a permanent installation vs a temporary trial system. In order to proceed, Boydel would install a temporary unit at the inlet end of our existing treatment plant at no cost to the Village and an approximate cost to them of \$20,000. Upon completion of the trial period, if their technology functioned as claimed, the Village would be required to install their technology, including an upgrade of the existing plant. Whether this is our preferred arrangement is not clear yet.

Boydell will put together a proposal for us that should be here early November.

## 5. Public Questions and Comments

No public questions or comments

## 6. Public Questions and Comments

A. The 25th September 2017 IC meeting minutes were approved as is.

B. Review of Action items from 25 Sept 2017 minutes.

**ACTION:** Karl to draft a message to the residents outlining the reasons for the towers and the benefits.

Action carried over – the tower location at Magnesia is still questionable, so not action taken until this is determined.

**ACTION:** Nai to send all members the spreadsheet with the beach water sampling data.

Done – all members received the data.

**ACTION:** Karl to do a piece to update the residents on the progress being made on the UBC project.

Action carried over – no action to be taken on this until UBC finishes their internal PR approval.

**ACTION:** Nai to report back on the outcome of the meeting with Metro Vancouver regarding feasibility of piping water out to Lions Bay.

Done - Nai met with Inder Singh and Tim Jervis of Metro and reported: Metro interested in helping us on the feasibility estimation by providing data (pumping, distance, etc.) and Nai will be able to then use the unit cost numbers given by AECOM in the IMP and calculate costs estimates for the various options over land and water (foreshore, highway and CN rail routes)

**ACTION:** Nai to have staff report on the exact cost of our pump maintenance.

Done – Nai sent Tony the costs and they were not out of the ordinary – no ongoing corrosion of the pumps). No further action required.

**ACTION:** Tony to investigate what the proper materials are for our peristaltic pumps.

Closed – no action required since there is no significant corrosion on the pumps.

**ACTION:** Tony to arrange for Boydell reps to visit our facility immediately before our next meeting on Oct 23<sup>rd</sup>.

Done. Update on the meeting is under section 4 of these minutes.

## 7. Business Arising from the Minutes

None.

## 8. Unfinished Business

### A. Water Storage Facility Replacement - Update

The 60% drawings were reviewed by staff last week. The 90% drawings are due on Nov 3<sup>rd</sup>. It's important that they be out for tender by mid-November to maintain schedule. Work should start in January.

Magnesia is deficient in fire flow so the Bayview Road area (already subject to next project) would need to be upgraded (water main size).

We have applied for an extension given the extremely challenging time frame to complete all aspects of the project. If we don't get the extension we only get 2 new tanks (Highway buried tank & new Harvey Tank) and a new PRV on Bayview, but not the other 3 options added to the original application (Harvey Crossing, Upgraded Bayview and PRV).

According to Nai, we are on track for the revised aggressive schedule to meet March 31<sup>st</sup> deadline (assuming no weather or other delays), however there is no design done for the 3 options – the water bridge being the longest in design time of the 3.

### B. Magnesia and Harvey Intake upgrades - Update

The new weir at Harvey is working fine.

At Magnesia, the main perforated intake pipe and blow-out piping is installed and the large (lower level) and small (top layer) rocks have also been installed. The first major rain of the season brought significant debris down the creek and plugged the infiltration gallery. The Village is running on Harvey Creek alone while this is addressed, and Creus is to come look at it tomorrow.

**ACTION:** Nai to send updates regularly on debugging progress.

### C. UBC Hydrology Project - Update

Karl provided the update. Data loggers are installed up in the watershed but there have been no visits in the last month by the UBC team to collect the data.

**ACTION:** Karl to follow up with Steven on the project status.

## 9. New Business

None.

**10. Public Questions and Comments**

There were no questions or comments from the gallery.

**11. Adjournment**

Meeting was adjourned at 8:10 pm.

**12. Next Meeting**

The next meeting is scheduled for Monday 27 Nov 2017 at 7:00 pm.